CLAIMS

1	1. A method for transferring data and telephone calls, comprising:
2	receiving a transfer request having a destination and data from an
3	application associated with a telephone call;
4	establishing a communications link with the destination;
5	transferring the data to the destination using the communications link;
6	and
7	requesting that the telephone call associated with the application be
8	transferred to the destination.
1	2. The method of claim 1 wherein the transfer request is received by
2	a flow object that includes routines for establishing the communications link with a flow
3	connection module at the destination.
1	3. The method of claim 1, further comprising:
2	receiving a call transfer notification from the destination; and
3	disconnecting the communications link with the destination after
4	receiving the call transfer notification.
1	4. The method of claim 1, further comprising:
2	obtaining an available destination address prior to establishing the
3	communications link with the destination.
1	5. The method of claim 1, further comprising:
2	transferring the telephone call to the destination after requesting that the
3	telephone call be transferred to the destination.
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	1	6. The method of claim 5, further comprising:
	2	notifying the destination of the telephone call transfer prior to transferring
	3	the telephone call.
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	1	7. The method of claim 1 wherein receiving the transfer request
	2	further comprises:
250	>3	creating an instance of a flow connection object for the transfer request;
	4	and
O	5	adding the data to the flow connection object.
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ļ.i	1	8. The method of claim 1 wherein establishing the communications
	2	link utilizes at least one computer-to-computer communication protocol.
	1	9. The method of claim 8 wherein the at least one computer-to-
	2	computer communication protocol is TCP/IP.
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ij J	1	10 The method of claim 1 wherein the transferred data is received by
	2	a flow connection module at the destination, the method further comprising:
	3	transferring the data from the flow connection module to an application
	4	associated with the destination.
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5/13	1	11. The method of claim 1 wherein the request to transfer the
39/	> 2	telephone call is sent in a format suitable for receipt by a computer-telephone interface
. /	3	("CTI") link to a private branch exchange ("PBX").
•	1	12. The method of claim 1, further comprising:
	2	receiving client information from a database, wherein the client
	3	information comprises the data in the transfer request.
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1	13. The method of claim 1 wherein the data in the transfer request
2	comprises an identifier for the telephone call.
1	14. The method of claim 1 wherein if the telephone call is
2	disconnected, a disconnect message is sent to the destination.
1	15. A method for automatically distributing calls in a call center
2	having agents, comprising:
3	receiving a telephone call into the call center and placing the telephone
4	call in a routing program having a first flow connection module;
5	determining an agent destination to receive the telephone call;
6	sending a transfer request to the first flow connection module, wherein
7	the transfer request comprises the agent destination and data;
8	establishing a communications link between the first flow connection
9	module and a second flow connection module at the agent destination;
0	transferring the data from the first flow connection module to the second
1	flow connection module; and
2	requesting a computer telephone interface ("CTI") link to transfer the
13	telephone call from the routing program to the agent destination.
1	16. The method of claim 15 wherein the transfer request is received
2	by a flow object in the first flow connection module that includes routines for
3	establishing the communications link with the second flow connection module.
1	17. The method of claim 15, further comprising:
2	sending another transfer request to the second flow connection module,
3	comprising another agent destination and data;

4	establishing a communications link between the second flow connection
5	module and a third flow connection module associated with the another agent
ó	destination;
7	transferring the data from the second flow connection module to the third
8	flow connection module; and
9	requesting the CTI link to transfer the telephone call from the agent
10	destination to the another agent destination.
1	18. The method of claim 17, further comprising:
2	receiving a call transfer notification from the third flow connection
3	module; and
4	disconnecting the communications link with the third flow connection
5	module after receiving the call transfer notification from the third flow connection
6	module.
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1	19. The method of claim 15, further comprising:
2	obtaining an available destination address prior to establishing the
3	communications link.
1	20. The method of claim 15, further comprising:
2	transferring the telephone call to the agent destination after sending the
3	transfer request.
1	21. The method of claim 20, further comprising:
2	notifying the agent destination of the telephone call transfer prior to
3	transferring the telephone call to the agent destination.
1	22. The method of claim \(\frac{1}{2} \), further comprising:
2	receiving the transfer request by the first flow connection module;

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3	creating an instance of a flow connection object for the transfer request
4	by the first flow connection module after receiving the transfer request; and
5	adding the data to the flow connection object by the first flow connection
6	module.
1	23. The method of claim 15 wherein establishing the communications
2	link between the first flow connection module and the second flow connection module
3	utilizes at least one computer-to-computer communication protocol.
1	24. The method of claim 23 wherein the at least one computer-to-
2	computer communication protocol is TCP/IP.
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1	The method of claim 15, further comprising:
2	transferring the data from the second flow connection module to an
3	application associated with the agent destination.
1	26. The method of claim 15 wherein the request to transfer the
2	telephone call from the routing program to the agent destination sent through the CTI
3	link is formatted for a CTI middleware application.
1	27. The method of claim 15, further comprising:
2	receiving information associated with the telephone call from a database,
3	wherein the information comprises the data in the transfer request.
1	28. The method of claim 5 wherein the data in the transfer request
2	comprises an identifier for the telephone call.
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1	29. The method of claim 15 wherein if the telephone call is
2	disconnected, a disconnect message is sent to the first flow connection module.
2	disconnected, a disconnect message is sent to the thist flow connection module.

The method of claim 15 wherein the agents are organized into at 1 30. 2 least two sets of agents and wherein determining the agent destination to receive the call 3 further comprises: 4 querying an agent locator to identify a set of agents of the at least two 5 sets of agents appropriate to receive the telephone call; 6 identifying an agent in the identified set of agents to receive the telephone 7 call; and 8 locating an agent destination for the identified agent. 1 31. system for transferring data and telephone calls having a computer-telephony integration ("CTI") link, comprising: 2 3 a first flow connection module having a first flow object configured to 4 receive a transfer request having a destination and data from an application associated 5 with a telephone call, to establish a communications link with the destination, to transfer the data to the destination, and to request the CTI link to transfer the telephone call to 6 7 the destination; and 8 a second flow connection module associated with the destination that maintains the communications link with the first flow object. 9 1 32. The system of claim 31 wherein the second flow connection 2 module is configured to send the first flow object a call transfer notification that causes 3 the first flow object to disconnect the communications link. The system of claim 31 wherein the first flow object is configured 33. 1. 2 to obtain an available destination address prior to establishing the communications link. The system of claim 31 wherein the second connection module is 1 34. 2 configured to receive a call transfer notice from the CT\ link.

35. The system of claim 31 wherein the first connection module is configured to instantiate the first flow object for the transfer request and to add the data to the first flow object after receiving the transfer request.

36. The system of claim 31 wherein the first flow object and the second connection module establish the communications link using at least one computer-to-computer communication protocol.

The system of claim 36 wherein the at least one computer-to-computer communication protocol is TCP/IP.

- 38. The system of claim 31 wherein the second flow connection module is configured to transfer the data to an application associated with the destination.
- 1 39. The system of claim 31, further comprising:
 2 a database containing client information, including the data in the transfer
 3 request.
- 1 40. The system of claim 3) wherein the data in the transfer request 2 comprises an identifier for the telephone call.

41. The system of claim 31 wherein if the telephone call is disconnected, the first flow object is configured to send a disconnect message to the second connection module.

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1	42. A system for automatically distributing calls in a call center having
2	agents and a computer-telephone interface ("CTI") link, comprising:
3	a routing program configured to receive a telephone call upon entry of
4	the telephone call into the call center;
5	a locator configured to identify an agent destination to receive the
6	telephone call;
7	a first flow connection module having a first flow object configured to
8	receive a transfer request, having a destination and data, for the telephone call from the
9	routing program, to establish a communications link with the destination, to transfer the
0	data to the destination, and to request the CTI link to transfer the telephone call to the
1	destination; and
2	a second flow connection module associated with the destination that
3	maintains the communications link with the first flow object.
1	43. The system of claim 42 wherein the second flow connection
2	module further comprises a second flow object configured to receive another transfer
3	request, comprising another agent destination and data, the system further comprising:
4	a third flow connection module associated with the another agent
5	destination that is configured to establish a communications link with the second flow
6	object and receive the data transferred from the second flow object, wherein the second
7	flow is configured to object requests the CTI link to transfer the telephone call from the
8	agent destination to the another agent destination.

The system of claim 42 wherein the second flow connection

module is configured to send a call transfer notification to the first flow object that

causes the first flow object to disconnect the communications link with the second flowconnection module.

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middleware application.

1	45. The system of claim 42 wherein the routing program obtains an
2	available address for the agent destination by using the locator prior to sending the
3	transfer request to the first flow object.
1	46. The system of claim 42 wherein the second connection module is
2	configured to receive notification from the CTI link of the telephone call transfer to the
3	agent destination prior to transferring the telephone call to the agent destination.
1	47. The system of claim 42 wherein the first connection module is
2	configured to instantiate the first flow object for the transfer request after receiving the
3	transfer request and to add the data to the first flow object.
1	48. The system of claim 42 wherein the first flow object and the
2	second flow connection module establish the communications link using at least one
3	computer-to-computer communication protocol.
1	The system of claim 48 wherein the at least one computer-to-
2	computer communication protocol is TCP/IP.
1	50. The system of claim 42 wherein the second flow connection
2	module is configured to transfer the data to an application associated with the agent
3	destination.
1	51. The system of claim 42 wherein the first flow object is configured
2	to format the request to transfer the telephone call sent through the CTI link for a CTI

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The system of claim 42, further comprising: a database containing caller information data, wherein the routing program is configured to retrieve the call information data and use the caller information data as the data in the transfer request. The system of claim 42 wherein the data in the transfer request

The system of claim 42 wherein if the telephone call is disconnected, the first flow object is configured to send a disconnect message to the

least two sets of agents and wherein the locator is configured to identify the agent destination to receive the call by querying an agent directory to identify a set of agents of the at least two sets of agents appropriate for the telephone call, and to identify an agent in the identified set of agents to receive the telephone call, and locating an agent

a call-handling application configured to process data associated with a

a flow connection module configured to receive a transfer request from 6 the call-handling application to transfer the call and the data to a destination.

The call center agent workstation of claim 56, further comprising 57. a flow object in the flow connection module, wherein the flow object is configured to

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- receive the transfer request and is configured to establish a communications link with another flow connection module at the destination.
- The call center agent workstation of claim 56 wherein the flow connection module is configured to retrieve from a locator program a network address for the destination.
- 59. The call center agent workstation of claim 56 for use with a corresponding destination call center agent workstation having another flow connection module, wherein the flow connection module establishes a communications link with the another flow connection module.
- 60. The call center agent workstation of claim 59 wherein the another flow connection module sends the flow connection module a call transfer notification that causes the flow connection module to disconnect the communications link.
- 1 61. The call center agent workstation of claim 56 wherein the flow connection module is configured to send a request to a computer-telephony interface link to transfer the telephone call to the destination.
- The call center agent workstation of claim 56 wherein the flow connection module is configured to instantiate a flow connection object for the transfer request and adds the data to the flow connection object after receiving the transfer request.
- 63. The call center agen workstation of claim 56, further comprising a database that provides the data to the call-handling application.
 - 64. The call center agent workstation of claim 56 wherein the flow connection module establishes a communications link with another flow connection

- module of the destination using at least one computer-to-computer communication protocol.
- 1 65. The call center agent workstation of claim 64 wherein the at least 2 one computer communication protocol is TCP/IP.
- 1 66. The call center agent workstation of claim 56 wherein the data in 2 the transfer request comprises an identifier for the telephone call.

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